सीएसआईआर
CSIR
भारत का नवाचार इंजन
The Innovation Engine of India

News Bulletin
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CSIR in Media

Compiled by Science Communication and Dissemination Directorate (SCDD), CSIR Hq, Anusandhan Bhawan, New Delhi

CSIR-Central Electrochemical Research Institute organises Curtain Raiser event for India International Science Festival – 2025

CSIR-CECRI

28th November, 2025

CSIR-Central Electrochemical Research Institute (CSIR-CECRI) organized the Curtain Raiser Event for the upcoming India International Science Festival (IISF-2025) on November 28, 2025 at CSIR-CECRI, Karaikudi in a grand festive way. After the traditional invocation, while welcoming the scholarly gathering, Dr. Jonas Davidson, Chief Scientist, CSIR-CECRI explained the origin of organizing IISF since 2015 and the previous edition at IIT-Guwahati in 2024. He gave a glimpse of the events being planned at the IISF-2025 scheduled at Panchkula, Haryana during December 6-9, 2025 particularly the Thematic Sessions meant mainly for the student community. He further informed that IISF is a flagship annual celebration of science and technology, designed to foster a culture of scientific curiosity, innovation, and collaboration. Since its inception, IISF has served as a vibrant platform for scientists, researchers, students, innovators, and the general public to engage with science in an inclusive and inspiring manner, he added. Dr. Davidson encouraged the participants to visit the IISF website and browse for more details of their choice.

In his Presidential Remarks, Dr. K. Ramesha, Director, CSIR-CECRI expressed his gratitude to the Chief Guest of the Event, Dr. Dr. S.A. Ilangovan, former Deputy Director, Vikram Sarabhai Space Centre, Thiruvananthapuram for embellishing the event with his gracious presence. He recalled the remark of Shri. Narendra Modi, our Hon'ble Prime Minister and President of CSIR on the current generation of youth as Gen Z, the innovators of future, and called upon them to make the most of the scientific opulence of the Chief Guest…

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CSIR Leaders Highlight Innovations In UAVs And Other Initiatives Aimed At Achieving Self-Reliance

CSIR-NAL, CMERI, CEERI, 4PI

29th November, 2025

On the occasion of unveiling the HANSA-3 NG aircraft, the Saras Mk-2 Iron Bird Facility, the High-Altitude UAV manufacturing line, and the NAviMet meteorology system on Saturday, CSIR leaders discussed India's strides in indigenous aerospace and defence technologies. They highlighted innovations in UAVs, electric propulsion, semiconductors, and aviation infrastructure aimed at achieving self-reliance and advanced capabilities.

ETV Bharat's Dr Anubha Jain interacted with Dr Abhay A Pashilkar, Director, CSIR-NAL; Dr CM Ananda, Programme Director (Civil Aircraft Programmes); Dr Naresh Chandra Murmu, Director, CSIR-CMERI; Dr PC Panchariya, Director, CSIR-CEERI; Dr GK Patra, Director, CSIR-4PI at CSIR-NAL in Bengaluru on Saturday.

Responding to Anubha's question on the long-term roadmap for expanding India's advanced aerospace testing infrastructure, Dr Pashilkar said traditionally NAL has been carrying out testing. "NAL works closely with ISRO, DRDO, and other strategic and atomic sectors in aerospace, mechanical engineering, and embedded systems," he said. Given the sensitivity of air-vehicle data, he emphasized that testing within the country is essential to protect critical performance information…

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900 KM घातक रेंज! मेड इन इंडिया लॉन्ग रेंज लोइटरिंग म्यूनिशन का रास्ता साफ, CSIR-NAL और Solar Defence में हुई मेगा डील

भारत की मारक क्षमता बढ़ाने की दिशा में बड़ा कदम उठाया गया है. CSIR नेशनल एयरोस्पेस लैबोरेटरीज (NAL) और Solar Defence & Aerospace Ltd ने 150 किलोग्राम क्लास के लॉन्ग रेंज लोइटरिंग म्यूनिशन UAV को मिलकर डेवलप करने और सीरीज प्रोडक्शन शुरू करने के लिए अहम समझौता किया है. यह प्रोजेक्ट पूरी तरह पब्लिक-प्राइवेट पार्टनरशिप मॉडल पर आगे बढ़ेगा. केंद्रीय विज्ञान एवं प्रौद्योगिकी राज्य मंत्री डॉ. जितेंद्र सिंह ने इसे आत्मनिर्भर भारत की सबसे सटीक मिसाल बताया है.

भारतीय इंजन से मिलेगी लंबी रेंज और बेहतर एंड्योरेंस

इस नए म्यूनिशन की सबसे बड़ी खासियत है. NAL का इंडिजिनस 38 एचपी वैंकल रोटरी इंजन. यह इंजन मैनड और अनमैन्ड दोनों प्लेटफॉर्म्स के लिए क्वालिफिकेशन ट्रायल पास कर चुका है. इसी इंजन की ताकत से UAV को करीब 900 किलोमीटर रेंज, 6 से 9 घंटे एंड्योरेंस और लगभग 5 किलोमीटर की सर्विस सीलिंग मिलेगी. NAL के एक वरिष्ठ वैज्ञानिक ने बताया कि NAL की साबित वैंकल इंजन तकनीक और Solar Defence की इंटीग्रेशन क्षमता मिलकर एक वर्ल्ड-क्लास भारतीय लोइटरिंग म्यूनिशन तैयार करेंगी.

फास्ट-ट्रैक प्रोडक्शन की तैयारी

Solar Defence इस प्रोजेक्ट के लिए एक डेडिकेटेड फाइनल असेंबली और टेस्टिंग लाइन तैयार करेगी. योजना है कि यूजर ट्रायल खत्म होते ही तेजी से प्रोडक्शन रैंप-अप हो सके. शुरुआती सप्लाई भारतीय थल सेना और वायु सेना के लिए होगी. जबकि सरकार की नई डिफेंस एक्सपोर्ट पॉलिसी को देखते हुए निर्यात की संभावनाएं भी खुली हैं...

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Prof T N Guru Row Highlights Advanced Insights in Noncovalent Bonding at CSIR-NCL Event

CSIR-NCL 29th November, 2025

CSIR–National Chemical Laboratory (CSIR-NCL), Pune, hosted the 2025 edition of the Professor K Venkataraman Memorial Lecture, featuring distinguished scientist Prof T N Guru Row as the keynote speaker.

The annual lecture honours the legacy of Prof K Venkataraman, whose foundational contributions to chemical sciences continue to shape research in India.

Prof T N Guru Row Discusses Noncovalent Bonding and Material Chemistry

Introducing the session, Dr Ashish K. Lele, Director, CSIR–NCL, reflected on the remarkable achievements of Prof. K. Venkataraman, the first Indian Director of the institute and a pioneering chemist fondly remembered as "KV."

Dr Rajesh Gonnade, Chief Scientist, CSIR-NCL, introduced Prof T N Guru Row, describing him as a leading authority in X-ray crystallography and the pioneer of Charge Density Analysis (Quantum Crystallography) in India. Delivering the lecture titled "Nature of Noncovalent Bonding and its Impact on Chemistry of Materials," Prof T N Guru Row revisited the scientific legacy of Prof. K. Venkataraman, including the Baker-Venkataraman rearrangement developed at CSIR-NCL…

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प्रदूषण से वनस्पतियों की प्रजाति पर संकट: लखनऊ में CSIR-NBRI में 7वीं अंतरराष्ट्रीय सम्मेलन आरंभ, देश-विदेश से प्रतिनिधि ले रहे हिस्सा

CSIR-NAL

30th November, 2025

Solar Defence & Aerospace Ltd (SDAL) on Sunday signed a collaborative agreement with CSIR-National Aerospace Laboratories (CSIR-NAL) for the design and development of a next-generation 150 kg class Loitering Munition - UAV (LM-UAV). According to the release, the signing ceremony was held at CSIR-NAL in Bengaluru, marking a strategic milestone in the country's push for self-reliant defence technologies.

Under the agreement, SDAL will work closely with CSIR-NAL to develop the LM-UAV, which will be powered by a Wankel engine designed by NAL that has already cleared CEMILAC certification for aircraft integration and flight testing. The UAV is designed to feature a very high level of indigenous content, including advanced payloads tailored to meet evolving operational requirements. Minister of State for Science & Technology and Earth Sciences, Jitendra Singh, lauded the initiative, highlighting CSIR's innovative approach of involving an industry partner from the very inception of a project of strategic importance, covering design, development, and testing phases. The LM-UAV is engineered for long-range missions with a comprehensive operational range of 900 km and endurance of 6 to 9 hours. It has a service ceiling of 5 km and is designed for enhanced survivability and precision…

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प्रदूषण से वनस्पतियों की प्रजाति पर संकट: लखनऊ में CSIR-NBRI में 7वीं अंतरराष्ट्रीय सम्मेलन आरंभ, देश-विदेश से प्रतिनिधि ले रहे हिस्सा

लगातार बढ़ रहे वायु प्रदूषण के कारण अनेक पौधों की प्रजातियों पर संकट बढ़ता जा रहा है। ये चिंताजनक बात सीएसआईआर–नेशनल बॉटनिकल रिसर्च इंस्टीट्यूट (एनबीआरआई) में सातवें अंतरराष्ट्रीय सम्मेलन में सामने आई। रविवार को शुरू हुए इस सम्मेलन में 300 से अधिक प्रतिनिधि और 30 विदेशी प्रतिभागी हिस्सा ले रहे हैं। उद्घाटन अवसर पर सीएसआईआर-एनबीआरआई के निदेशक डॉ. अजित कुमार शासनी ने पौधों की पर्यावरणीय स्वास्थ्य संकेतकों और प्राकृतिक जैव उपचारकों के रूप में वैज्ञानिक भूमिका पर जोर दिया।

पृथ्वी सुरक्षित रहे और इसे हम भावी पीढ़ी को सुरक्षित सौंप सकें इस विषय सम्मेलन का आयाेजन इंटरनेशनल सोसाइटी ऑफ एनवायरनमेंटल बॉटनिस्ट्स और सीएसआईआर–नेशनल बॉटनिकल रिसर्च इंस्टीट्यूट की ओर से किया जा रहा है। इसमें पादप विज्ञान, जलवायु स्थिरता तथा पर्यावरणीय पुनर्स्थापन जैसे महत्वपूर्ण विषयों पर चर्चा आयोजित की गई है।"पर्यावरण के लिए जीवनशैली (लाइफस्टाइल), हरित विकास और सतत भविष्य को आगे बढ़ाने के लिए पौधे और पारिस्थितिकी तंत्र" विषय पर देश-विदेश से आए प्रतिनिधियों ने विचार रखे। सीएसआईआर-आईआईटीआर के निदेशक डॉ. भास्कर नारायण मुख्य अतिथि रहे। नार्थ ईस्ट हिल यूनिवर्सिटी शिलांग के प्रो. एस. के. बारिक, फीनलैंड की प्रो. एलीना ओक्सानेन और जापान से आए प्रो. स्वाधीन बेहेरा भी शामिल रहे।

पौधों की प्रतिक्रिया पर हो शोध

फिनलैंड की प्रो. एलीना ओक्सानेन ने यूरोप-भारत अनुसंधान सहयोग की आवश्यकता पर जोर देते हुए अत्यधिक पर्यावरणीय परिस्थितियों में पौधों की प्रतिक्रिया पर अनुसंधान के महत्व पर जोर दिया। प्रो. स्वाधीन बेहेरा ने वैश्विक जलवायु तंत्र, महासागर-वायुमंडल अंतःक्रिया और कृत्रिम बुद्धिमत्ता आधारित जलवायु मॉडलिंग पर अपने विचार साझा किए...

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देश का पहला मल्टीलेयर ग्लास सिरेमिक पैनल होगा:भारतीय वैज्ञानिक बुलेट प्रूफ पैनल बना रहे, एके 47 की गोली भी नहीं भेद पाएगी

CSIR-CGCRI

01st December, 2025

प. बंगाल की राजधानी कोलकाता स्थित सीएसआईआर (सेंट्रल ग्लास एंड सिरेमिक रिसर्च इंस्टीट्यूट) के वैज्ञानिक देश का पहला बुलेट प्रूफ ग्लास सिरेमिक पैनल बना रहे हैं। इसे एके-47 राइफल की गोली भी नहीं भेद पाएगी। देश में इस तकनीक को विकसित करने वाले स्पेशियलिटी ग्लास डिवीजन के वरिष्ठ वैज्ञानिक डॉ अतियार रहमान बताते हैं- हम 2-3 साल से इस टेक्नोलॉजी पर काम कर रहे हैं।

वे बताते हैं- ग्लास सिरेमिक पैनल ने चंडीगढ़ डीआरडीओ के टर्मिनल बैलिस्टिक्स रिसर्च लैबोरेटरी में 10 मीटर की दूरी से एके-47 के सिंगल शॉट गोली का टेस्ट पास कर लिया है। अभी हमें मल्टीपल गोलियों से टेस्ट करना है। हमने इसके पेटेंट के लिए भी आवेदन कर दिया है।

इंस्टीट्यूट के डायरेक्टर विक्रमजीत बसु बताते हैं- इसका इस्तेमाल डिफेन्स से लेकर अंतरिक्ष अभियानों में किया जा सकेगा। खास बात यह है कि ग्लास सिरेमिक दुनिया में सिर्फ हम ही बनाते हैं। इसलिए दूसरे देशों को इसे निर्यात किया जा सकता है। फायदे... कम ईंधन में गाड़ियों की गति बढ़ेगी

डॉ अतियार बताते हैं, विंडो ग्लास से हम ऐसा मैटेरियल बना रहे हैं, जिससे ग्लास में नैनो क्रिस्टल (10-15 एमएम) जनरेट हो रहा है। साधारण ग्लास की हार्डनेस 5 जीपीए होती है। इसकी 10 जीपीए होगी। इससे गाड़ियों का वजन नहीं बढ़ेगा, जिससे गति बढ़ेगी। ईंधन की खपत घटेगी। कीमत भी बराबर ही होगी...

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CSIR-IIIM Organizes Curtain Raiser of IISF 2025

CSIR-IIIM 01st December, 2025

The CSIR -Indian Institute of Integrative Medicine (CSIR-IIIM), Jammu, successfully organized the Curtain Raiser and Outreach Event of the 11th India International Science Festival (IISF)-2025.

The event showcased a series of inspiring and engaging activities, setting the stage for the 11th IISF-2024, scheduled to take place at Panchkula from 6th-9th December 2025.

Prof. Pawanesh Abrol, Vice President of VIBHA (J&K) and Professor and former HOD, Department of Computer Sciences, University of Jammu was the chief guest. Dr Zabeer Ahmed, Director, CSIR-IIIM, presided over the function.

The program commenced with a welcome and introduction of the Curtain Raiser. In his motivating address, Chief Guest Prof. Pawanesh Abrol elaborated on the future technologies where India can take lead. He highlighted the need for innovative thinking to address various societal issues through the application of science and technology.

Prof. Abrol shared his rich experiences and thought-provoking insights, presenting various interesting ideas to inspire students and enhance their belief systems. He also encouraged students to visit the IISF website and register for this prestigious annual festival…

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Need to revive traditional crops, tackle climate-induced plant stress: Experts

CSIR-NBRI 01st December, 2025

Plants use a variety of molecules to boost their immunity, and both healthy and those already assimilated plants continue to adapt and thrive in their ecology, said CSIR-National Botanical Research Institute (NBRI) director Ajit Kumar Shashnay while delivering a lecture at the 7th international conference on plants and environmental pollution (ICPEP-7) on Monday.

The conference, being organised at CSIR-NBRI, brings together scientists and scholars to discuss a wide range of topics, featuring scientific exchanges enriched by international participation.

Shashnay said that although crop yields rose significantly during the Green Revolution, it is now essential to revisit traditional plant varieties and cultivation practices.

“While we focussed on increasing yield through breeding and the use of nitrogen and fertilizers, over time we forgot many traditional plants and their classifications. We need to bring them back,” he said. He added that genome editing is also emerging as a key technique, helping enhance resilience and eliminate negative traits that affect plant health.

Prof Rishikesh Bhalerao of the Swedish University of Agricultural Sciences (SLU), Sweden, noted in his lecture that temperate forests are experiencing significant temperature shifts…

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CCMB maps harmful bacteria across Eastern Ghats reservoirs in first eDNA study

CSIR-CCMB

02nd December, 2025

Scientists from the CCMB's Laboratory for Conservation of Endangered Species (LaCONES) have identified harmful bloom-forming bacteria in several major reservoirs across the country. The findings come from a study that used environmental DNA (eDNA) testing to detect bacterial communities in water bodies.

According to LaCONES researchers led by Govindhaswamy Umapathy, reservoirs across India, including those in Telangana and Andhra Pradesh, showed varying levels of bloom-causing bacterial species linked to eutrophication. Harmful bloom-forming bacteria were detected in the Pulichintala dam in AP and Krishnagiri dam in Tamil Nadu. In contrast, the Nagarjuna Sagar Dam in Telangana showed the presence of nitrogen-fixing bacteria, indicating a different microbial profile.

This is the first large-scale study of bacterial communities across lakes and reservoirs in the Eastern Ghats. Using eDNA collected from 40 sites across 23 water bodies, the team generated more than one million DNA reads per sample to reveal the hidden bacterial diversity in this underexplored region. The other authors of the study are Manisha Ray, Neeldeep Ganguly, and Abhijeet Mondal from LaCONES, CSIR-CCMB…

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CSIR-IIIM Jammu celebrates 85th Foundation Day, strengthens industry ties

CSIR-IIIM, CFTRI, CMERI, CSMCRI

02nd December, 2025

The CSIR-Indian Institute of Integrative Medicine (IIIM), Jammu, on Monday celebrated its 85th Foundation Day with great enthusiasm, marking more than eight decades of scientific contribution and national impact. The event brought together senior scientists, dignitaries, and researchers to reflect on the institute's journey and its expanding influence in integrative medicine, natural product research, and innovation.

Dr. Sridevi Annapurna Singh, Former Director of CSIR-CFTRI Mysuru, graced the occasion as Chief Guest and delivered a compelling Foundation Day lecture on "Hidden medicines in your food." She emphasized the global relevance of functional foods, nutraceuticals, and traditional Indian dietary wisdom. Stressing the need for scientific validation of indigenous knowledge, she said quality standards in food and nutraceuticals must be prioritized. She also advocated stronger collaboration between CSIR laboratories and industries to maximize expertise, resources, and impact. Guest of Honour Dr. Kannan Srinivasan, Director CSIR-CSMCRI Bhavnagar, lauded IIIM's excellent student-scientist ratio and its robust translational research ecosystem. He highlighted the critical role of the institute's pilot-scale facilities in helping innovations cross the challenging "valley of death"-the stage between laboratory research and commercialization. He urged researchers to leverage emerging opportunities created through ICMR-supported clinical trials…

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Director General CSIR inaugurates 'National Centre of Excellence for Green Firecrackers' at CSIR-NEERI, Nagpur and 'Centre of Excellence for Green Firecrackers' at CSIR-CECRI, Karaikudi

CSIR-NEERI, CECRI, CLRI

02nd December, 2025

Dr. (Mrs.) N. Kalaiselvi, Director General, Council of Scientific & Industrial Research (CSIR) and Secretary, Department of Scientific & Industrial Research (DSIR), New Delhi virtually inaugurated the "National Centre of Excellence for Green Firecrackers" at CSIR-National Environmental Engineering Research Institute (CSIR-NEERI), Nagpur and "Centre of Excellence for Green Firecrackers" at CSIR-Central Electrochemical Research Institute (CSIR-CECRI), Karaikudi on December 02, 2025 from the event held at CSIR Madras Complex, Taramani, Chennai.

Indian fireworks manufacturing industries are major producers of firecrackers. In recent times, firecrackers that leave air and noise pollution raised a lot of environmental concerns. However, through lot of efforts, the CSIR has developed formulations of green firecrackers that release ~30-40% reduction in the particulate matter than the conventional crackers. CSIR through the "Harnessing Appropriate Rural Interventions and Technologies (HARIT)" programme worked to support the sustainability of Indian fireworks manufacturing industries through solving pollution issues with the usage of green crackers. CSIR-NEERI, Nagpur is the certifying institute to provide test reports for green firecrackers...

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Singareni, CSIR-IMMT sign pact on exploration of rare minerals from mining waste

CSIR-IMMT

02nd December, 2025

The Singareni Collieries Company Ltd (SCCL) on Tuesday signed an agreement with the CSIR-Institute of Minerals and Materials Technology (IMMT) for a joint exploration and extraction of valuable and rare earth minerals from the overburden and other mining waste generated by the coal company as part of its coal mining activity.

Chairman and Managing Director of SCCL N. Balram stated that the joint effort would be a major step forward both in the exploration of rare earth minerals and the country's self-reliance. Director of IMMT Ramanuj Narayan said they would explore the rare minerals in the mining waste of Singareni with the help of indigenous technology.

As part of the agreement, the two entities would explore for rare earth minerals and other valuable minerals in the shale, soil, sandstone, granite, fly ash, bottom ash and other waste generated by Singareni's activities. The agreement was signed by Chief Scientist and Hydro & Electro Metallurgy Head Kali Sanjay on behalf of IMMT and Director (Planning & Projects) K. Venkateshwarlu on behalf of SCCL…

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3-day science conclave starts at IMTECH, Chandigarh

CSIR-IMTECH 02nd December, 2025

A three-day Laboratory Animal Science Association Conference on the theme of "Preclinical to Clinical: Connecting the Dots of Research, Animal Welfare, Drug Discovery and Pharma Innovation for Viksit Bharat" began at the Institute of Microbial Technology (IMTECH), Chandigarh, today.

The conference aims to address critical scientific and ethical intersections. In his inaugural address, Dr Sanjeev Balyan, former Minister of State for Fisheries, Animal Husbandry and Dairying, Agriculture and Jal Shakti, exhorted scientists to undertake research that is beneficial to common man and especially agriculture.

Dr Sanjeev Khosla, Director, IMTECH said there was a pressing need to develop a robust mechanism for the welfare of laboratory animals as most of the failures in any drug discovery program occur at the pre-clinical stage…

Read More: Tribuneindia

CSIR-NCL Develops Self-Healing Hydrogel Electrolyte for Safer, Flexible Zinc-Metal Batteries

CSIR-NCL 02nd December, 2025

CSIR-National Chemical Laboratory (CSIR-NCL) has announced a major advancement in battery materials science with the development of a Self-Healing Hydrogel Electrolyte designed for next-generation rechargeable zinc-metal batteries. The innovation addresses safety and performance limitations arising from dendrite growth and mechanical damage. The research has been published in Advanced Energy Materials.

Self-Healing Hydrogel Electrolyte Shows Breakthrough in Battery Safety and Flexibility
The Self-Healing Hydrogel Electrolyte, developed by a team led by Dr Sreekumar Kurungot and PhD researcher Priyanka Pandinhare Puthiyaveetil, is a newly engineered hydrogel polymer material named PHBC-4.

Its design incorporates hydrogen bonding, dynamic polar covalent B–O interactions, and Zn–O coordination bonding, forming a reinforced polymer network capable of suppressing zinc dendrite formation. Dendrites are the primary cause of short-circuiting and premature failure in conventional zinc-metal batteries.

A striking feature of the PHBC-4 material is its ability to autonomously repair itself, recovering up to 93% of its mechanical strength within just five minutes. To demonstrate this capability, researchers constructed a flexible pouch cell using PHBC-4 to power an LED. Even after intentionally cutting the pouch cell, the internal network reassembled, and the LED continued to remain illuminated – a strong indication of its suitability for wearable and flexible electronics…

Read More: Sahyadristartups

NEERI Deemed Natl Centre Of Excellence For Green Crackers

CSIR-NEERI, CECRI, CLRI

03rd December, 2025

CSIR–National Environmental Engineering Research Institute (CSIR-NEERI), Nagpur, has been designated as the National Centre of Excellence on Green Firecrackers (NCoE-GF), with the formal inauguration conducted on Tuesday by Dr N Kalaiselvi, director general, CSIR and secretary, CSIR. At the same time, the Centre of Excellence on Green Firecrackers (CoE-GF) was inaugurated at CSIR-CECRI, Karaikudi. The event was held in virtual mode and attended by senior officials including Dr S Venkata Mohan, director, CSIR-NEERI; Dr K Ramesha, director, CSIR-CECRI; Dr P Thanikaivelan, director, CSIR-CLRI; Dr KJ Sreeram, former director, CSIR-CLRI; TANFAMA president Ganesan; Dr R J Krupadam, Chief Scientist, CSIR-NEERI; and Dr. R. Sivacoumar, Scientist-in-Charge, CSIR-NEERI Chennai.

Dr Kalaiselvi congratulated the NEERI and CECRI teams, noting that green firecracker research symbolises a balance between tradition and environmental responsibility. She said the initiative was first conceptualised during her tenure at CSIR-CECRI and highlighted NEERI's national role following the Supreme Court's recent direction mandating certification of green firecrackers by the institute. Dr Kalaiselvi added that with Sivakasi's economy heavily dependent on firecrackers, the new centres would help ensure safer, cost-effective products and faster certification, giving CSIR-NEERI a distinct national recognition…

Read More: [Times of India]

GI Mahotsav 3.0 in Mysuru to celebrate India's rich 'geographical indication' heritage

CSIR-CFTRI 03rd December, 2025

To promote India's vibrant GI ecosystem and to strengthen the market linkages for the traditional producers, the Union Ministry of Micro, Small and Medium Enterprises (MSME) has been holding a series of national GI events. As part of this initiative, the NABARD–Madurai Agri Business Incubation Forum (MABIF), in collaboration with the Union Ministry of MSME, Tamil Nadu Agricultural University (TNAU), and CSIR–CFTRI is organising the GI Mahotsav 3.0-Geographical Indication Products Exhibition.

On this occasion, an MoU will be signed between MABIF and CSIR–CFTRI, aimed at fostering innovation, research collaboration, and entrepreneurial support in the GI and agri-food ecosystem. They will also launch several startup products. As part of the event, they are hosting technical sessions by eminent personalities on cutting-edge topics, besides cultural programmes, celebrating the regional art and traditions.

About 50 curated stalls, exclusively dedicated to GI–registered artisans, will showcase and sell authentic GI products from across South India. This will offer visitors an opportunity to not only witness the diversity of India's heritage crafts and produce, but also to purchase them directly from the traditional producers. During a session on the valedictory day, GI associations, Farmer Producer Organisations (FPOs), and startups will share their success-stories…

Read More: [Deccanherald]

Modern 100-bed fabricated hospital and Sickle Cell Anaemia Lab inaugurated in Jamshedpur Sadar Hospital

CSIR-CCMB

03rd December, 2025

The Minister of Health, Medical Education and Family Welfare, Food Supplies, and Disaster Management, Government of Jharkhand, Irfan Ansari, inaugurated a newly constructed 100-bed modern fabricated hospital and a Sickle Cell Anaemia Lab at Sadar Hospital, Khasmahal, today. The lab has been developed with the support of Tata Steel Foundation.

The event witnessed the presence of Potka MLA Sanjib Sardar, Jamshedpur East MLA Purnima Sahu, Ghatshila MLA Somesh Chandra Soren, Deputy Commissioner Karn Satyarthi, Civil Surgeon Sahir Pal, D B Sundara Ramam, Director, Tata Steel Foundation and Sourav Roy, CEO, Tata Steel Foundation and other dignitaries.

Speaking on the occasion, the Minister said that the new facility is not merely an infrastructure addition but a significant step towards strengthening the public health system. He said that district hospitals will be empowered to such an extent that referrals to bigger hospitals will become negligible in the future. The state government is committed to ensuring that every citizen receives quality healthcare that is accessible, safe, and timely. He added that the new hospital has been built in line with modern healthcare standards and will have trained doctors, nurses, and support staff to ensure that patients receive seamless care. He highlighted that until now, there was no government lab for sickle cell testing across Kolhan, and with Tata Steel Foundation's support, the new lab will benefit thousands of patients in the region. He also reiterated that Sadar Hospital, Khasmahal, is being developed into a medical college…

Read More: Avenuemail

Bhavnagar CMSCRI Scientist Develops Affordable And Easy To Use UTI Detection Kit

CSIR-CMSCRI

04th December, 2025

A scientist at Bhavnagar's Central Science and Marine Chemicals Research Institute (CMSCRI) has come out with a kit for detecting urine infection that allows to carry out tests anywhere and is around 80 per cent cheaper than the cost of the test elsewhere. Presently, people in the remote areas have to get their tests done in urban centres and get reports from there only.

This kit performs the test in less time and can be particularly useful in rural areas where both men and women contact urinary tract infections (UTIs) while defecating.

Dr. S. Haldar, who is the Chief Scientist at CSMCRI, said, "This kit isn't just for women but for men as well. It is called a VAST kit that has a method for diagnosing UTis, which are a common condition affecting women more often than men. The gold standard is that the test is done within 48 to 72 hours. I've noticed that there aren't UTI test facilities available in Bhavnagar, and everyone goes to Ahmedabad, which is a waste of time."

Dr. Halder added, "By taking a urine sample and creating a simple membrane, we can tell with the naked eye whether there's a urine infection just by the change in colour. If there is an infection, we can also tell what type of infection it is and which bacteria caused it, and what is its antibiotic registered profile. This is important because antibiotics can be given when a UTI is detected, but doctors often have difficulty in getting the UTI results…

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Wokha's new agriculture push: District Administration, CSIR–NEIST ink MoU for scientific cultivation

CSIR-NEIST

05th December, 2025

The Wokha District Administration, in collaboration with the North East Institute of Science & Technology (CSIR–NEIST), Jorhat, and Krishi Vigyan Kendra (ICAR–KVK), Wokha, on Thursday launched a major initiative aimed at developing cluster-based cultivation of medicinal, aromatic and floriculture crops in Nagaland.

A preliminary workshop, held at the ICAR–KVK Conference Hall, marked the formal beginning of the project, during which a Memorandum of Understanding was signed between the District Administration and CSIR–NEIST. Officials said the partnership seeks to promote scientific cultivation and commercial-scale farming of high-value crops across the district.

The program brought together farmers, scientists and district officials for an orientation on crop potential and market opportunities. Principal Scientist at CSIR–NEIST, Mantu Bhuyan, delivered a session on scientific beekeeping, highlighting its role in pollination, enhanced honey production and livelihood diversification. Fellow Principal Scientist Mohan Lal briefed participants on aromatic crop cultivation, focusing on species suitable for Wokha's agro-climatic conditions and their commercial viability…

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From Nanjangud Banana to Byadagi Chilli: GI Mahotsav 3.0 opens at CFTRI

CSIR-CFTRI

05th December, 2025

A visit to the Council of Scientific and Industrial Research–Central Food Technological Research Institute (CSIR–CFTRI) campus in Mysuru now offers a vibrant showcase of Geographical Indication (GI) products from Karnataka and several other States, as GI Mahotsav 3.0 began on the campus on December 5. The four-day event features a wide array of GI-certified products and brings together those who have been promoting and safeguarding India's rich GI heritage. Organised by the Madurai Agri Business Incubation Forum (MABIF), the event is an initiative of the Ministry of Micro, Small & Medium Enterprises, Government of India, and is being held in association with CSIR–CFTRI, National Bank for Agriculture and Rural Development (NABARD), and Tamil Nadu Agricultural University (TNAU).

From Nanjangud Banana to Byadagi Chilli, and from Bidriware to Patteda Anchu sarees, visitors can explore many unique GI products displayed across nearly 50 stalls set up for the Mahotsav. The exhibition has attracted significant curiosity among the public, as artisans and producers not only display but also sell their distinctive products at the venue…

Read More: The Hindu

Bitumen Forum India Signs Landmark MoU with CSIR–CRRI to Advance India's Road Infrastructure Excellence

CSIR-CRRI

06th December, 2025

Bitumen Forum India proudly announces the signing of a transformative Memorandum of Understanding (MoU) with the Council of Scientific & Industrial Research – Central Road Research Institute (CSIR–CRRI). The agreement was formally exchanged today between Mr Akhilesh Srivastava, President – Bitumen Forum India, and Prof. Manoranjan Parida, Director – CSIR–CRRI, marking a milestone collaboration for India's road and infrastructure ecosystem.

A Strategic Alliance for Innovation

This partnership integrates CRRI's scientific leadership with Bitumen Forum's strong industry network, creating a powerful synergy focused on driving innovation, sustainability, and excellence in the road construction sector. Together, both organisations will work toward the development of future-ready pavements, cutting-edge technologies, and advanced research solutions.

Building Capacity for a Better Tomorrow

Under this MoU, Bitumen Forum India and CSIR–CRRI will jointly undertake a wide spectrum of initiatives, including…

Read More: Sangritoday

Dr. Jitendra Singh inaugurates India International Science Festival (IISF) 2025 in Panchkula; Four-day national science celebration begins

CSIR

06th December, 2025

Union Minister Dr. Jitendra Singh, Hon'ble Minister of State (I/C) for Science & Technology and Earth Sciences, inaugurated the 11th India International Science Festival (IISF 2025) in Panchkula today, marking the beginning of one of India's largest public science outreach events. The four-day festival, being held from 6–9 December, aims to showcase India's scientific strengths, celebrate innovation and deepen public engagement with science. The inaugural ceremony began with Saraswati Vandana and Lamp Lighting, followed by the IISF introductory film. Scientists, students, innovators and science communicators from across the country participated in the opening session.

In his inaugural address, Dr. Jitendra Singh described IISF as a national science movement aimed at taking science beyond laboratories and into the public domain. He articulated the essence of IISF through the three "C's" — Celebration, Communication and Career, noting that the festival celebrates India's scientific journey, communicates science to wider audiences, and provides young participants exposure to emerging opportunities in research, innovation, startups and industry…

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CFTRI to develop foods for astronauts, athletes, and India's ageing population

CSIR-CFTRI 06th December, 2025

After the successful launch of various millet-based products during the International Year of Millets, which also drew the attention of the Government of India, the Mysuru-based Central Food Technological Research Institute (CFTRI) has now shifted its focus to developing advanced food technologies. These include foods for astronauts (space foods), endurance-enhancing foods for sportspersons (sports foods), and nutrition-rich foods for the elderly (geriatric foods).

Acting on inputs from the Council of Scientific and Industrial Research (CSIR), scientists at the premier food research institute are currently working on special food technologies, including a three-meal nutrition kit for senior and super-senior citizens.

"Our target is to develop these foods by 2030. Unlike the Defence Food Research Laboratory (DFRL) in Mysuru, which develops specialised technologies for the Indian armed forces, our work is focused on foods for space missions. We are developing foods for astronauts with a special emphasis on bone health, as bone-related issues have been identified as a concern. Besides CFTRI, other CSIR laboratories have also joined this initiative. Our goal is to deliver these food technologies as advised by CSIR by 2030," said Giridhar Parvatham, CFTRI director…

Read More: The Hindu

Researchers chosen for Dr. Hisham Endowment Award 2025

CSIR-NIIST 07th December, 2025

The Professor Dr. Hisham Endowment Award 2025, instituted by the Kerala Academy of Sciences, will be jointly awarded to B.L. Abhirami, research scholar, Agro and Food Processing Technology Division, CSIR–National Institute for Interdisciplinary Science and Technology (CSIR-NIIST), Thiruvananthapuram, and K.P. Smija, research scholar, Centre for Advanced Studies in Botany, University of Madras, Chennai.

The award, carrying a gold medal, citation, and cash prize, will be presented at a ceremony at Fatima Mata National College, Kollam, on December 15. Kajal Chakraborty, Director, ICAR–National Bureau of Fish Genetic Resources, Lucknow, will distribute the awards and deliver the endowment oration.

The event will also feature a national seminar on 'Advances and innovations in phytochemistry – therapeutic translation.' V. Arunachalam, Director, Jawaharlal Nehru Tropical Botanic Garden and Research Institute, Palode, will inaugurate the seminar…

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Students of CPS Adityapur visit NML Jamshedpur

CSIR-NML 07th December, 2025

Central Public School (CPS), Adityapur organized an educational tour for Class X students (Session 2025–26) to the National Metallurgical Laboratory (NML), Jamshedpur on 5 December 2025. A total of 39 students participated in the visit aimed at deepening their scientific understanding and exposing them to advanced research in metallurgy and material science.

The visiting group was accompanied by faculty members Dr. Mukesh Kumar Singh, Nirad Kumar Barick and Puja Singh, who guided the students throughout the programme. On arrival, the NML team warmly welcomed the participants and conducted a detailed tour of various laboratories and research units. Students observed demonstrations of metallurgical processes, testing techniques and technological innovations currently under development.

Interactive sessions with scientists provided students a firsthand understanding of practical applications of theoretical concepts taught in school. They also learned about ongoing research projects, industrial applications of metallurgical science and potential career opportunities in science and technology sectors…

Read More: Avenuemail

CFTRI to develop technologies for nutritious food for geriatric population

CSIR-CFTRI 07th December, 2025

CSIR-CFTRI Mysuru, which is already catering to GenZ, for health and nutritious conscious youth, is now focusing on developing technologies for nutritious food for geriatric population, that is required to meet the entire day's nutritional requirements of senior citizens above 60 years of age. This is because, even as India currently has world's highest of about 65% youth population under 35 years, it will have high percentage of seniors above 60 years by 2047.

Dr Giridhar Parvatam, Director, CSIR-CFTRI, informed that they have already developed three products including nutrition bars for Geriatric population and more products will be developed in next three years.

Ashithosh Inamdar, Chief Scientist CSIR-CFTRI, informed that CFTRI develops about 150 new technologies every year. It has so far developed about 5,000 commercially attractive technologies for healthy nutritionally superior quality safe food products which can be adopted by tiny, small, medium and large production sectors. They are developing technologies for convenience foods besides food machines, natural food additives, bakery products, beverage products, cereal products, fruits and vegetable products, meat and marine products, microbiology fermentation products, plantation and spice products, protein specialty products…

Read More: Deccanherald

IISF 2025: S&T Media and Communicators Conclave focuses on science journalism, AI-enabled communication and public engagement

CSIR-NIScPR

07th December, 2025

The Science and Technology Media and Communicators Conclave, held as part of the India International Science Festival (IISF) 2025, brought together senior scientists, defence officials, media professionals and science communication experts to examine the evolving landscape of science communication in an increasingly technology-driven society. The inaugural session featured addresses by Dr. Shekhar Mande, Former Director General of CSIR and Secretary, DSIR, and currently President of VIBHA; Lt Gen Rajiv Kumar Sahni, Director General of EME, Indian Army; Dr. Geetha Vani Rayasam, Director of CSIR–NIScPR; and Dr. Shiv Kumar Sharma, National Organizing Secretary of VIBHA. The speakers highlighted the critical need for transparent, ethical and accessible science communication and emphasised the importance of strengthening public engagement with scientific research, innovation and national development initiatives. A key highlight of the Conclave was the special session on Operation Sindoor. Lt Gen Rajiv Kumar Sahni delivered an in-depth presentation on the scientific and strategic planning that shaped the mission.

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India: Orientation on the potential of floriculture crops

CSIR-NEIST 08th December, 2025

The Wokha District Administration in collaboration with the North East Institute of Science & Technology (CSIR–NEIST), Jorhat, Assam, and Krishi Vigyan Kendra (ICAR–KVK), Wokha, successfully conducted a preliminary workshop on Cluster Development of Medicinal, Aromatic and Floriculture Plants on December 4, 2025, at the ICAR–KVK Conference Hall, Wokha.

During the programme, a Memorandum of Understanding was signed between the District Administration, Wokha, and CSIR–NEIST, Jorhat. The initiative aims to promote scientific cultivation and commercial-scale farming of high-value crops across the district.

The programme brought together farmers, district officials, and scientists for an in-depth orientation on the potential of medicinal, aromatic, and floriculture crops. Principal Scientist, CSIR–NEIST, Mantu Bhuyan spoke on scientific beekeeping, highlighting its role in pollination, honey production, and livelihood diversification. Principal Scientist, CSIR–NEIST, Mohan Lal briefed participants on aromatic crop cultivation, focusing on species viable for Wokha's agro-climatic conditions and their market potential…

Read More: Floraldaily

CSIR-IMMT Bhubaneswar Workshop on Battery Materials and Recycling

CSIR-IMMT 08th December, 2025

A five-day Workshop on “Opportunities in Battery Materials and Recycling”, hosted by CSIR-IMMT Bhubaneswar, was inaugurated by P. K. Gupta, Joint Director, MSME Development Institute, Cuttack, here on Monday.

Coordinating the programme, Dr Umapathi Balaji, Principal Scientist, CSIR-IMMT, stated that the workshop has been structured in two phases. The first phase, being held during 8th and 9th December, is designed to provide MSMEs and entrepreneurs with a comprehensive understanding of emnerging battery chemistries, material development, and recycling technologies aligned with the principles of circular economy. The second phase, to be held during 15 to 17 December, is dedicated to skill development of postgraduate students, offering fundamental concepts along with hands-on training in battery materials and recycling processes. He also emphasised the growing business opportunities in next-generation batteries beyond lithium-ion, including aluminium-air systems, and highlighted multiple government schemes available to support MSMEs and start-ups in Odisha.

The programme is being jointly conducted under the IMMT-DSIR-CRTDH (Common Research and Technology Development Hub), CSIR Integrated SkillIitiative and the Innovative Technology Enabling Center (InTEC) at CSIR- IMMT…

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CSIR-NCL CHT-KIT Enables Instant Detection of Chloral Hydrate Adulteration in Toddy

CSIR-NCL 08th December, 2025

CHT-KIT has been developed by the CSIR–National Chemical Laboratory (CSIR-NCL), Pune, to enable rapid and on-the-spot detection of chloral hydrate adulteration in toddy. The laboratory has transferred the technology for commercial production and supply to the Authentic Chemicals and Research Centre (ACRC-TEM), Tembhurni.

Toddy is a naturally fermented beverage sold through government-approved outlets and typically contains 5–6% ethyl alcohol along with beneficial natural constituents. However, studies conducted by a committee formed by the Government of Maharashtra revealed large-scale adulteration of toddy with chloral hydrate, a banned chemical substance associated with sedative effects and rapid dependency.

CHT-KIT Addresses Public Health Risks

Chloral hydrate, once consumed, converts into trichloroethanol and trichloroacetic acid, both of which are linked to severe health complications such as gastric disorders, organ damage, ulcers, rashes, coma, and long-term carcinogenic effects. The presence of these chemicals poses serious public health concerns.Existing testing methods require excise officials to either carry multiple instruments or send samples for laboratory testing, leading to delays and logistical challenges. To overcome these limitations, CSIR-NCL scientists developed the CHT-KIT, a field-level testing solution that enables immediate detection…

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Scientists Uncover How Cells Decide to Fight, Repair or Self-Destruct

CSIR-CCMB

08th December, 2025

In a shift that could shape the next generation of therapies for infections, cancer and autoimmune diseases, scientists revealed that a cell's defence responses, clean-up systems and self-destruct programmes are not separate processes at all but part of a single, tightly coordinated survival network. This new understanding, they said, could radically change how diseases are diagnosed and treated in the future.

Speaking at a three-day international meeting hosted by the CSIR–Centre for Cellular and Molecular Biology (CCMB), researchers explained that every cell has a built-in first responder system capable of detecting invading microbes, removing faulty components and triggering emergency shutdown when survival is impossible. These early defence steps determine why some infections become severe while others remain mild.

Dr Santosh Chauhan, senior principal scientist at CCMB and lead organiser, said scientists highlighted growing evidence that innate immunity, autophagy (the cell's recycling system) and various forms of programmed cell death operate as an interconnected network. Disturbances in any one pathway can disrupt the others, contributing to diseases ranging from inflammatory disorders and infections to neurodegeneration and cancer…

Read More: [Deccanchronicle]

CSIR–CFTRI, Mysuru concludes GI Mahotsav 3.0 organized by MABIF with MSME, NABARD & TNAU

CSIR-CFTRI 09th December, 2025

CSIR–Central Food Technological Research Institute (CSIR-CFTRI), Mysuru, successfully concluded its four-day GI Mahotsav 3.0, which witnessed an overwhelming response from the public. The event was organized by MABIF in collaboration with MSME, NABARD, Tamil Nadu Agricultural University (TNAU), and CSIR–CFTRI.

India's cultural, ecological, and artisanal diversity is deeply reflected in its Geographical Indication (GI) products, shaped by traditional knowledge, regional practices, and community heritage. Each GI product embodies the skill, identity, and legacy of the communities that have safeguarded these traditions for generations.

To promote India's vibrant GI ecosystem and strengthen market linkages for traditional producers, the Ministry of Micro, Small and Medium Enterprises (MSME), Government of India, has been leading a series of national GI events. As part of this initiative, NABARD–Madurai Agri Business Incubation Forum (MABIF) organized GI Mahotsav 3.0 – Geographical Indication Products Exhibition, held from December 5–8, 2025, at CSIR–CFTRI, Mysuru.

The valedictory ceremony was held in the presence of Er. Ganesh Moorthy, CEO, MABIF, and Dr. Giridhar Parvatam, Director, CSIR–CFTRI. Both emphasized the importance of promoting GI products and strengthening the ecosystem for producers and entrepreneurs…

Read More: Fnbnews

CFTRI begins mission to feed India's first astronauts

CSIR-CFTRI 09th December, 2025

The Central Food Technological Research Institute (CFTRI), Mysuru, has embarked on an ambitious mission to craft nutritious, high-quality food for astronauts set to fly in India's first human spaceflight programme in 2027-28. The project is backed by a special grant from the Council of Scientific and Industrial Research (CSIR).

Human space travel demands intense physical and mental endurance, and sustaining the health of astronauts in a zero-gravity environment remains a formidable challenge. Experts stress that only scientifically engineered, nutrient-rich food can ensure the strength, stability and alertness essential for space-based research.

As India accelerates its preparations, the Indian Space Research Organisation (ISRO) is gearing up to place the country among the elite global spacefaring nations. Once successful, India will become the fourth nation — after the US, China and Russia — to send humans into space with indigenous capability.

To meet this milestone, the CSIR has entrusted CFTRI with the task of designing space-grade food that aligns with Indian dietary habits…

Read More: [Starofmysore]

Push for partnerships with GI-registered organisations

CSIR-CFTRI 09th December, 2025

The four-day GI Mahotsav 3.0, organised at Council of Scientific and Industrial Research–Central Food Technological Research Institute (CSIR-CFTRI), Mysuru, concluded on a successful note, drawing an overwhelming response from the public. The event was organised by Madurai Agri Business Incubation Forum (MABIF) in collaboration with the Ministry of Micro, Small and Medium Enterprises (MSME), National Bank for Agriculture and Rural Development (NABARD), Tamil Nadu Agricultural University (TNAU) and CSIR-CFTRI.

The valedictory function of the Mahotsav was held in the presence of Ganesh Moorthy, CEO, MABIF, and Giridhar Parvatam, director, CSIR–CFTRI, who highlighted the importance of promoting Geographical Indication (GI) products and strengthening the ecosystem for producers and entrepreneurs.

The primary objective of the GI Mahotsav was to create awareness among the public about GI products, their cultural and economic significance, and to motivate stakeholders to pursue more GI registrations in the future…

Read More: [The Hindu]

सीएसआईआर संस्थान में किसानों को दिया गया प्रशिक्षण

CSIR-CIMAP

09th December, 2025

कृषि प्रौद्योगिकी प्रबंध अभिकरण सीतामढ़ी एवं मुजफ्फरपुर,बिहार द्वारा चयनित किसानों को औषधीय एवं सगंध पौधों व खेती,प्रसंस्करण एवं विपणन तकनीकियों के प्रति जागरूक करने के लिए एक प्रशिक्षण कार्यक्रम का आयोजन सीएसआईआर-केन्द्रीय औषधीय एवं सगंध पौधा संस्थान (सीएसआईआर-सीमैप) मंगलवार को प्रारम्भ किया गया।

इस प्रशिक्षण कार्यक्रम में बिहार राज्य के सीतामढ़ी एवं मुजफ्फरपुर जनपद के 42 प्रतिभागी भाग ले रहे हैं। इस कार्यक्रम को आयोजित करने का मुख्य उद्देश्य यह है कि बिहार राज्य के सीतामढ़ी एवं मुजफ्फरपुर जनपद के किसानों को औषधीय एवं सगंध पौधों की खेती के साथ-साथ इनसे बनने वाले उत्पादों की तकनीकी को भी सिखाया जाये ताकि किसान सीधा लाभ प्राप्त कर सकें। यह प्रशिक्षण कार्यक्रम एरोमा मिशन-III के अन्तर्गत किया जा रहा है...

Read More: Tarunmitra

Celebration of Science Communication and Outreach at Vigyanika: Science Literature Festival 2025

CSIR-NIScPR, TKDL, CFTRI

10th December, 2025

CSIR–National Institute of Science Communication and Policy Research (CSIR–NIScPR), New Delhi in association with Vijnana Bharti (VIBHA), Indian Institute of Tropical Meteorology (IITM), Pune and Panjab University, Chandigarh successfully organised Vigyanika: Science Literature Festival 2025 during 8–9 December 2025 as an integral part of the India International Science Festival (IISF), 2025. The two-day festival celebrated the convergence of science, literature, language, and creative communication, bringing together leading science communicators, scientists, editors, scholars, and science poets from across the country. The event aimed to strengthen the culture of scientific temper through multilingual and culturally rooted forms of science communication.

The festival opened on 8th of December with an inaugural session titled “Bhartiya Vigyan Vimarsh me Sahitya aur Sanchar Madhyamo ki Bhoomika”…

Read More: Pib

Dr Jitendra Singh informs RS about 'Jigyaasa' science-outreach benefiting 14 lakh school children

CSIR-IGIB

11th December, 2025

Speaking in the Rajya Sabha today, Union Minister of State (Independent Charge) for Science and Technology; Earth Sciences, and Minister of State for PMO, Department of Atomic Energy, Department of Space, Personnel, Public Grievances and Pensions, Dr. Jitendra Singh informed that the "Jigyasa" Student–Scientist Connect Programme of the Council of Scientific and Industrial Research (CSIR), initiated by the Modi Govt, has emerged as one of the most impactful initiatives for fostering scientific curiosity among school children. The Minister stated that the programme has benefitted more than 14 lakh school children and around 80,000 teachers across the country so far, providing exposure to cutting-edge scientific work and nurturing interest in research from an early age.

Dr. Jitendra Singh highlighted that "Jigyasa", launched in 2017 in collaboration with Kendriya Vidyalaya Sangathan (KVS), brings students directly into the ecosystem of science and innovation by facilitating visits to CSIR laboratories, interactions with scientists, and hands-on activities…

Read More: Pib

CSIR-CSMCRI Transfers Salt Purification Technology to RANITEC for Sustainable Tannery Effluent Management

CSIR-CSMCRI, CLRI

11th December, 2025

In a major step towards sustainable industrial practices, the CSIR–Central Salt & Marine Chemicals Research Institute (CSIR-CSMCRI), Bhavnagar, has transferred its innovative salt-separation and purification technology know how to Ranipet Tannery Effluent Treatment Co. Ltd. (RANITEC), Tamil Nadu, under a tripartite agreement with the All India Skin and Hide Tanners and Merchants Association (AISHTMA). This breakthrough technology enables the recovery and purification of salts, such as sodium chloride and sodium sulphate from various unit processes of tannery operations including stored salts. This advancement not only promotes resource reuse but also significantly reduces environmental impact, supporting the tannery sector's transition to cleaner and more sustainable operations.

The technology transfer ceremony was attended by CSIR-CSMCRI Director Dr. Kannan Srinivasan, Chief Scientist Dr. Arvind Kumar, and Dr. Kamalesh Prasad, Head of Business Development. Distinguished guests included Dr. Palanisamy Thanikaivelan, Director of CSIR-CLRI, and Dr. K J Sreeram, former Director of CSIR-CLRI. The event was held at the Tamil Nadu Pollution Control Board (TNPCB) office in Chennai, in the presence of TNPCB Chairperson Ms. Jayanthi Murali on December 04, 2025…

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India begins commercial operations of its first hydrogen fuel cell vessel in Varanasi

CSIR-CECRI

11th December, 2025

Union Minister of Ports, Shipping and Waterways Sarbananda Sonowal, on December 11, flagged off the commercial operations of India's first indigenous hydrogen fuel cell vessel at Namo Ghat in Varanasi.

The launch marks the start of regular service for the 24-metre hydrogen-powered catamaran as part of efforts to modernise inland water transport with cleaner energy solutions.

The vessel was indigenously designed and built by Cochin Shipyard Limited as a pilot project under the Ministry of Ports, Shipping and Waterways' Harit Nauka initiative. It can carry up to 50 passengers in an air-conditioned cabin and is propelled by a hydrogen fuel cell system paired with battery technology that produces electricity with zero emissions, emitting only water and heat.

Sonowal said, "This is not just technological progress, but a sign that we are advancing confidently towards green energy and indigenous solutions." He noted that with this launch, India joins a group of countries operating hydrogen-powered vessels…

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CRRI urges NHAI to complete access road linking south Delhi colonies to NH-148NA

CSIR-CRRI

11th December, 2025

To ease chronic congestion along Mathura Road and Sir CV Raman Marg, the Central Road Research Institute (CRRI), in a communique, urged the National Highways Authority of India (NHAI) to complete access roads connecting multiple south Delhi localities to the NH-148NA, which is the DND–Manesar spur of the Delhi-Mumbai Expressway, on a priority basis.

In a letter sent in September, S Velmurugan, chief scientist and head of the traffic engineering and safety division at CSIR-CRRI, noted that the absence of completed access roads was resulting in severe bottlenecks for thousands of daily commuters. The access roads, one complete, will ease traffic flow in Batla House, New Friends Colony, Zakir Nagar, Khizrabad and Taimoor Nagar, which are accessed by over 100,000 vehicles daily.

“The huge traffic volume plying on Sir CV Raman Marg and Mathura Road is causing severe congestion and gridlocks for residents of the adjoining colonies… Completing the pending access roads will provide major relief and ease out the traffic congestion by offering an alternative route for vehicles heading towards central and south Delhi, including the airport, New Delhi railway station, Barapullah Elevated Road, as well as toward Noida and Faridabad,” reads the letter, a copy of which HT has seen…

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CSIR-NAL and SDAL Successfully Tests Long-Range Loitering Munition UAV With AI-Enabled Navigation

CSIR-NAL 12th December, 2025

India has taken a significant leap in strengthening its indigenous defence ecosystem with the successful field testing of two high-value unmanned aerial systems— a 150-kg class Loitering Munition UAV (LM-UAV) and solar-powered High Altitude Platforms (HAPs).

Developed by the Council of Scientific and Industrial Research – National Aerospace Laboratories (CSIR-NAL) along with private defence partner Solar Defence & Aerospace Ltd. (SDAL), these systems are poised to transform India's surveillance, reconnaissance, and precision-strike capabilities. Both platforms reflect India's strategic shift toward self-reliance in defence manufacturing, reducing dependency on foreign technologies and accelerating innovation under national initiatives such as Aatmanirbhar Bharat.

Background of CSIR-NAL Loitering Munition UAV

India's defence sector has been undergoing rapid modernization, emphasizing indigenous development of advanced platforms—from unmanned aerial vehicles to next-generation missile systems.

Government-industry partnerships have created a flourishing ecosystem where defence start-ups, public institutions, and research agencies jointly contribute to critical capabilities. The collaboration between CSIR-NAL and SDAL is a result of this growing synergy…

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IIT–NCL scientists develop patented technology to standardise chemical-free jaggery

CSIR-NCL 13th December, 2025

For generations, jaggery has occupied a place of trust in Indian kitchens—valued as a natural sweetener rooted in tradition, health, and cultural memory. Yet behind this familiar product lies a reality of inconsistency, declining consumer confidence, and struggling farmers. Seeking to address this gap, Dr Vishal Sardeshpande of IIT Bombay and his wife, Dr Madhavi Sardeshpande, a senior scientist at the National Chemical Laboratory (NCL), have developed a patented, science-driven solution that promises to redefine jaggery production in India.

Their innovation, known as Resource Efficient Jaggery Processing (REJP) technology, aims to bring consistency, hygiene, and chemical-free purity to jaggery manufacturing—while remaining simple enough to be adopted by farmers and rural women entrepreneurs.

A traditional product facing modern challenges
Madhavi Sardeshpande explains that the concern began with the way jaggery is produced today.

“Jaggery is something our grandparents trusted,” she says. “But modern production depends on traditional furnaces that are unpredictable. Farmers struggle with inconsistent heat, excess fuel usage, lack of skilled labour, and unhygienic conditions. The result is jaggery that varies widely in colour, texture, and sweetness from batch to batch…

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Foods for astronauts, elderly and kids: Sky's the limit for CFTRI

CSIR-CFTRI 14th December, 2025

CSIR-Central Food Technological Research Institute (CFTRI), a premier food science and technology institute, is set to integrate artificial intelligence into food processing and quality assurance. The institute, which pioneered infant supplementary speciality food formulation technology for Amul way back in 1956, is now developing food for astronauts. With its nutrition-rich, healthy food technologies, including millet-based products, it is catering to all segments of the population, mainly today's health, nutrition, calorie-conscious era, Gen Z youth. It is now heading to contribute more to the growing Geriatric population.

With 14 R and D departments and about 173 scientific staff, as CFTRI's tagline goes- 'Annapaane Cha Sarvada' which means 'Let us have abundant food always', the Institute mainly focuses and specializes in developing technologies for appropriate nutritious, safe food products across various sectors. It includes ready-to-eat, dehydrated, canned foods, natural additives, bakery items, beverages, and more. Additionally, they are working on food-processing machines. Founded on October 21, 1950, under the Council of Scientific and Industrial Research, CFTRI is located in the Cheluvambavilas Palace in Heritage city Mysuru.

Here are excerpts from an interview by Shilpa P with Dr Giridhar Parvatam, Director of CSIR-CFTRI, in which he discusses initiatives, priorities of the Institute and his vision for the institute…

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